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DROZDOV, A.N.

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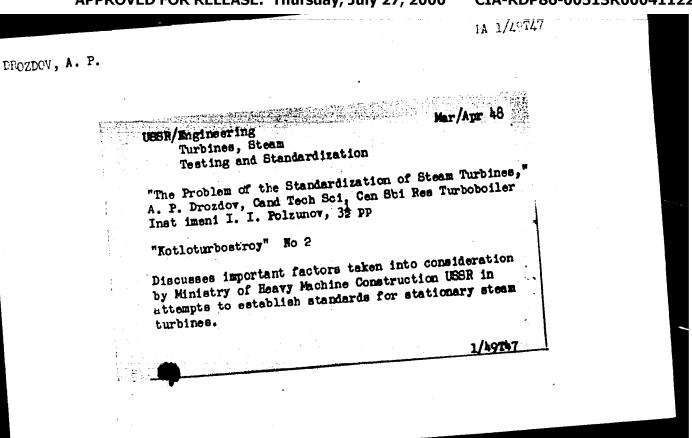
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(Silk manufacture)

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DROZDOV, A.N., inzh.

Thread tension causing formation of balloons. Sbor. nauch.-issl.
rab. TTI no.4:167-178 157. (MIRA 11:9)
(Thread) (Reels (Textile machinery))



DROZDOZ, A.P.

114-8-2/16

AUTHOR: Drozdov, A.P., Candidate of Technical Sciences.

An experimental investigation of the temperature fields in the main assemblies of the first prototype of the TITLE: turbine CBK-150-1. (Eksperimental nove issledovaniye temp-eraturnykh poley v osnovnykh uzlakh golovnogo obraztsa turbiny SVK-150-1.)

"Energomashinostroyeniye" (Power Machinery Construction)
1957, Vol.3, No.8, pp. 5-11 (U.S.S.R.) PERIODICAL:

The rational design and operation of large turbines for very high steam parameters is hindered by lack of knowledge of temperature fields in various parts during heating up, start-ABSTRACT: ing and loading the turbine and also during steady operating conditions. It is therefore necessary to investigate these questions experimentally and the results of one such investiquestions experimentally and the results of one such investigation are given in the present article. The work was carried out by members of the staff of the steam turbine department of the Central Boiler Turbine Institute (TsKTI), A.P. Drozdov, of the Central Boiler Turbine Institute (TsKTI), E.I. Utsal', E.N. Sokolov, A.S. Volfson and others under the leadership of the author. The task consisted in determining the temperature fields in the main parts of the most important assemblies of the first prototype of the turbine type CBK-150-1. On the basis of the experimental data which has been obtained,

it is possible to determine the magnitudes of the thermal stresses in these parts, their deformations and also the displacement of one member relative to another. This helps to establishe the best conditions for heating up, starting and

loading a turbine of this type.

The article describes only the most interesting of the large number of investigations that were made and in particular those on the steam-strainer, the automatic shutter, the body of the right-hand lateral regulating valve and the outside frame of the high-pressure cylinder. The locations of the thermocouples in these parts is shown in Figs. 1, 2, 3 and 4. A special apparatus was devised by V.D.Gogin, E.I. Utsal' and B.I. Lomashev to weld the thermo-couples in place.

The test results are then given, Temperature distribution curves on the radius of the flanges of the bodies of the automatic shutter and regulating valve during heating, starting and loading of the turbine determined during its second period of operation are given in Figs. 5 and 6. As was to be expected these curves show that sharp changes in steam temperature

Card 2/7

correspond to large temperature drops in the flanges and, therefore, to large thermal stresses in them during periods of starting and loading the turbine. The resits of calculations of the thermal stresses in the steam strainer, the automatic shutter and the regulating valve, that arise at the instants of greatest temperature drop are tabulated. The take also gives results of calculations of thermal stresses in the various parts during steady operation of the turbine on a load of 150 MW. It will be seen from the table that during the starting period the thermal compressive stresses on the inner surface of the flange of the body of the regulating valve greatly exceed the yield point. However, it is shown that during constant operation of the turbine at rated load the thermal stresses in this part or in the others that were examined are not dangerous.

The very high thermal stresses in the parts investigated, even under steady thermal conditions, occur because the austentic steels used have a high coefficient of expansion and low thermal conductivity. Turbines with important parts made of austenitic steel therefore require much longer time to heat up,

Card 3/7

start and load than turbines in which no austenitic steel parts are used.

The test results for the outer frame of the high pressure cylinder are then considered separately. There are two important aspects in evaluating the operation of this component, namely, the thermal displacement of the rotor relative to the frame and thermal bending of the cylinder during heating and starting. These points are considered briefly.

The starting time of the turbine can be much reduced by heating it up at the same time as the main steam piping is heated whilst smoothly raising the steam conditions; that is it is necessary and advisable to heat and start the turbine whilst steam is being raised in the boiler. This procedure will limit thermal stresses.

Temperature deformation of the cylinder is then considered. When operating conditions are not steady and particularly when the turbine is being heated up, the temperatures of the upper and lower halves of the cylinder may be very different. It is necessary to know the greatest permissible temperature difference Card 4/7

of this kind. It is very difficult to give an accurate analytical solution of the problem. Moreover, the deformations encountered are small and very difficult to measure. However, the article presents a simplified analytical solution of the problem which represents the cylinder as a beam that is bent under the influence of non-uniform heating. A sector of such a beam is represented in Fig. 7 which gives the notations used in the brief analytical treatment. From the approximate relationships that are obtained an important practical conclusion may be drawn that the limiting temperature drop between the upper and lower parts of the cylinder may be the greater the greater the diameter of the cylinder and the greater the radial gaps in the shaft glands but varies inversely as the square of the length of the cylinder. The expression which is derived is used to make an approximate determination of the permissible temperature drop between the upper and lower parts of the frame. Assuming that the temperature change from the upper part of the cylinder to the lower is linear, the total permissible drop is about 32 C. The manufacturer limited this difference to 25 C which seems reasonable. If, during starting, the temperature Card 5/7

difference exceeds 25 C rotation of the rotor should not be commenced. Experimental curves of turbine heating recorded during two starts and relating to the second period of experimental operation are given in Fig. 8. It will be seen from the curves that the temperature difference between the upper and lower parts of the frame reached about 75 C during the heating up period whilst the rotor was still. This occurred at the start of heating when the condensate was not drained from the frame.

The author then considers the possibility of operating turbine parts during the heating period with thermal stresses above the yield point. Since the stresses are greatly relieved by small plastic deformations, occasional application of such stress is not dangerous but there is a risk of the occurrence of secondary plastic deformations during unloading. Very little work has been done on the experimental study of this problem but work by A.E. Danyushevskiy in the Central Boiler and Turbine Institute has shown that the ability of the material to resist alternating plastic deformation decreases sharply as the strain is increased, and it follows from his work that if

Card 6/7

An experimental investigation of the temperature fields in "CBK-150-1". (Cont.)

during heating of a part the apparent elastic stress does not exceed twice the yield point in tension, secondary plastic deformations will not occur when the part is unloaded.

Tests carried out by P.S. Kuratov, and V.I. Rosenblum on a disc of austenitic steel under given conditions showed that the disc cracked after only 330 cycles. In the turbine which is the subject of this article the greatest thermal stresses were the considerations given in the article show that they are not dangerous.

The preliminary results of the present work have been used by the turbine manufacturers to correct the instructions for starting up the first turbine. It is of course to be expected that this instruction will be further modified in the light of experience. The results of the investigations should be useful and also to the staff of power stations.

AVAILABLE: Library of Congress

ACC NR. AP6033829 SOURCE CODE: UR/0096/66/000/011/0030/0034 AUTHOR: Drozdov, A. P. (Candidate of technical sciences); Rabinovich, E. M. (Engineer) CRG: Central Boiler and Turbine Institute (Tsentral'nyy kotloturbinnyy institut) TITIE: Investigation of operating temperatures of parts of the steam supply members of the leading model of K-300-240 TMZ turbine under natural conditions SOURCE: Teploenergetika, no. 11, 1966, 30-34 TOPIC TAGS: turbine, steam turbine, thermal stress, temperature measurement ABSTRACT: The authors measured the temperature distribution as a function of time in various parts of the turbine during a typical starting operation, with the purpose of evaluating the resulting thermal stresses. Thermocouples were placed in various internal and external parts of the turbine and the temperature recorded. The meridional and equatorial thermal stresses in the spherical part of the body wall were calculated on the basis of the theory of S. P. Timoshenko (Theory of Elasticity, ONTI, 1937). Because of the complicated geometry, simplifying assumptions were made. The calculated stresses were as high as 4150 kg/cm, whereas the yield point for steel is 4300 kg/cm2. For other parts, the stresses were also close to the critical point, so that frequent careful inspection of the parts is recommended in the search for possible cracks which would indicate residual deformations. Orig. art. has: 4 figures and 5 SUBM DATE: none/ ORIG REF: 005 sta code;

DROZDOV, A.P. (Moskva)

By the hands of a talented specialist. Priroda 54 no.7:82-84 J1 *65. (MIRA 18:7)

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PHASE I BOOK EXPLOITATION

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Drozdov, A.V.

Tekhnologiya i metodika kapital'nogo remonta koordinatno-rastochnogo stanka "SIP" modeli MP-5B; iz opyta zavoda (Technology and Methods of General Overhauling of the "SIP" Jig Boring Machine, Model MP-5B; the Practice of a Plant) Leningrad, 1955. 23 p. (Series: Leningradskiy dom nauchno-tekhnicheskoy propagandy.' Informatsionno-tekhnicheskiy listok, no. 12 /680/)

Sponsoring Agencies: Leningradskiy dom nauchno-tekhnicheskoy propagandy, and Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.

No contributors mentioned.

PURPOSE: This pamphlet is intended for personnel performing both maintenance and general overhaul of the SIP jig boring machine.

Card 1/4

COVERAGE: The pamphlet outlines step-by-step procedures to be followed in disassembling, washing, scouring, repair, and reassembling the SIP jig boring machine. There are no references. No personalities are mentioned. TABLE OF CONTENTS: Brief description of jig boring machines, their function and field of application 1 Tools and devices necessary for the general overhaul of a jig boring machine 3 Technological sequence of scouring operations of all working surfaces of the machine tool a. Method of scouring and working surfaces of the table b. Method of scouring the working surfaces of the column	Technology and Methods of General (Cont.) 536	
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Technology and Methods of General (Cont.)	536
 W. Method of scouring the cross rail and control of its position in relation to the surface of the table g. Method of scouring the cross rail block and spindle heads and control of their position in relation to 	9
Assembly of the machine tool	10
Step-by-step check of the table- and cross rail- lead scress straight rule	11
No-load running in of all working parts	13
	18
Testing the machine tool under a working load	19
Certifying the machine tool for geometrical precision and filling out the precision chart	
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Technology and Methods	of General (Cont.)	526
Control certification after a three-month pe	of the machine tool for pr	10 - 4
Appendix. A chart of of the machine tool	precision standards for th	e overhaul
AVAILABLE: Library of	Congress	20
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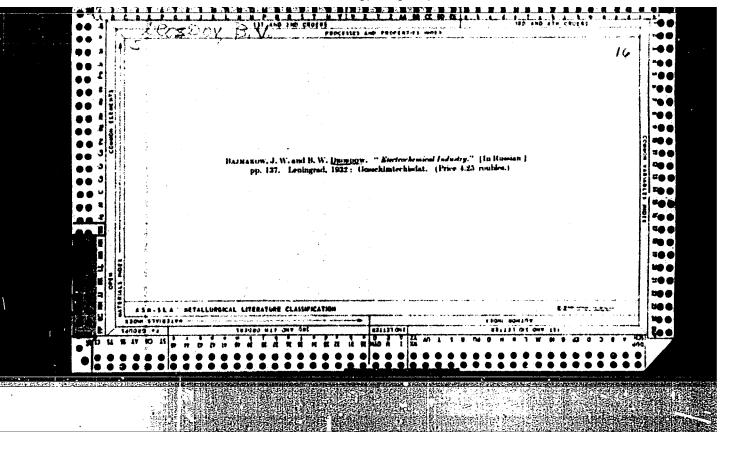
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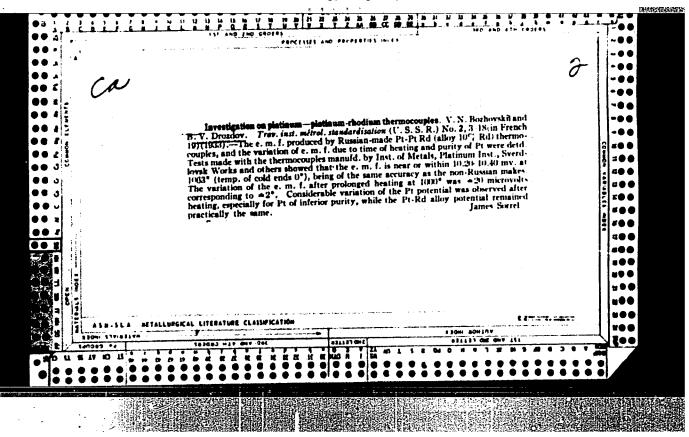
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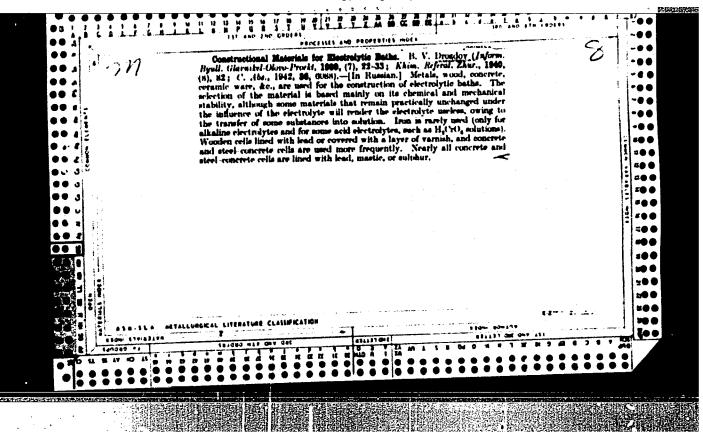
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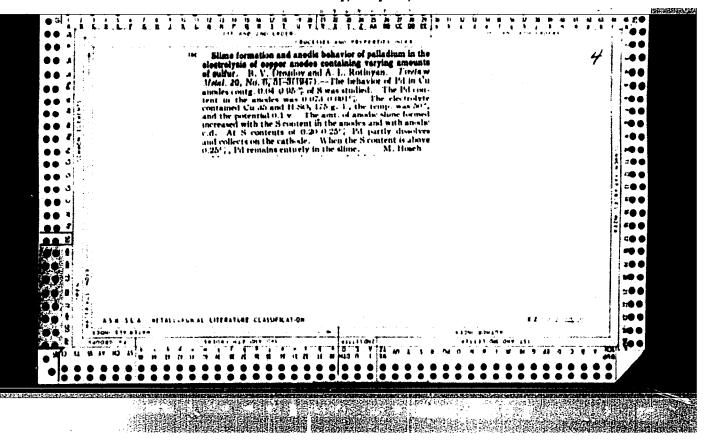
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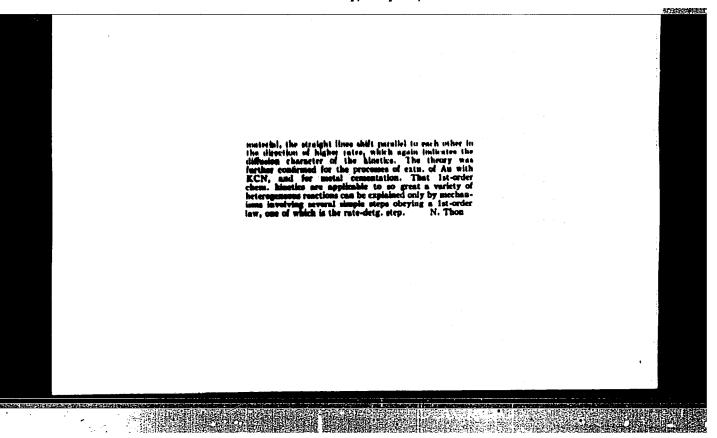
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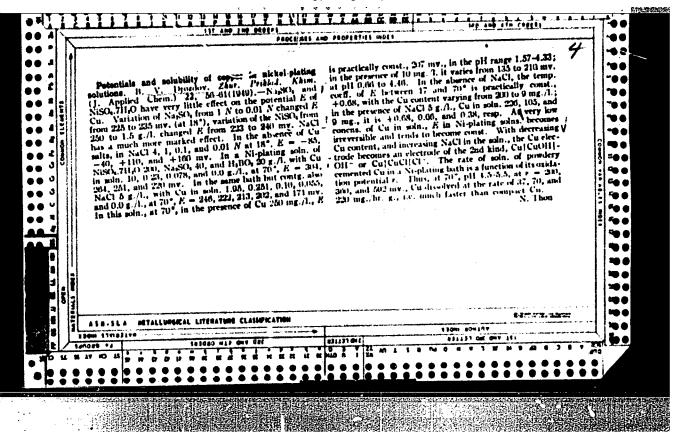
by the criterion of linearity between in [1, (1 = π ')] and π '/i. Dehydration on alunity is an example of a process with no resistance to diffusion and hency detal, energy by the chem, reaction, with the list-order $h \sim 0.17$ hr. 1, holding up to 90% dehydration. Examples of processes in which chem, reaction and diffusion rate play commensarable roles, and for which the above intenrity is shown to hold, are the reduction of Ni aluminosilicate by CO, data of linguishi (C.-d. 41, 7344), with d' = 1.2, 1.4, and 1.7, at 6th), 7th, and 1810°, resp., the tier of S' with the terminosity with the chem, reaction, chlorimation of N' once by inquid ScCls, data of Prichman and Hoperse (C.-d. 41, 4421g), with g' = 1.1 at 100°. Extended the mixed suifide ore by gaseous chlorimation at 300° appears to be an instance of a purely chem, process, with the interfere h = 0.020 and 0.013 min. 1 for PbCh and ZnCheresp. The above linearity was further confirmed in numerous instances of oxidizing, sulfating, and reducing remaining. That leaching processes are not necessarily simple 1st order processes, but are detail by link the chem reaction rate and diffusion across the interface layer (islaws from the frequent inconstancy of the const. calcel, by the simple Nernat diffusion equation. This applies particularly to leaching of high-d. minerals. An example is the leaching of natural covellite (CaS) by an acid solo, of Peq(FOs) for which the above linear relation is found to hold, currint at the initial stage where the rind is not yet formed; the effect of increased rate of the diffusion is constituted to the diffusion of patents.

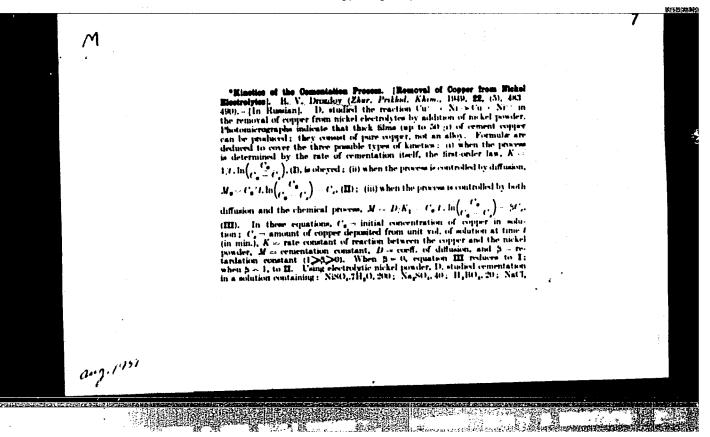
19 50°, is due solely to increased rate of the diffusion storf. In the case of chalcotte (Cu₅S), also leached with acid Fe₁(SO₄), at 22, 35, and 50°, β′ = 1.3, 1.1, and 2, resp.; here, the effect of the temp. on the diffusion coeff, is more pronounced only at lower temps, whereas at higher temps, the effect on the chem. reaction rate because previousisant. With increasing fineness of the

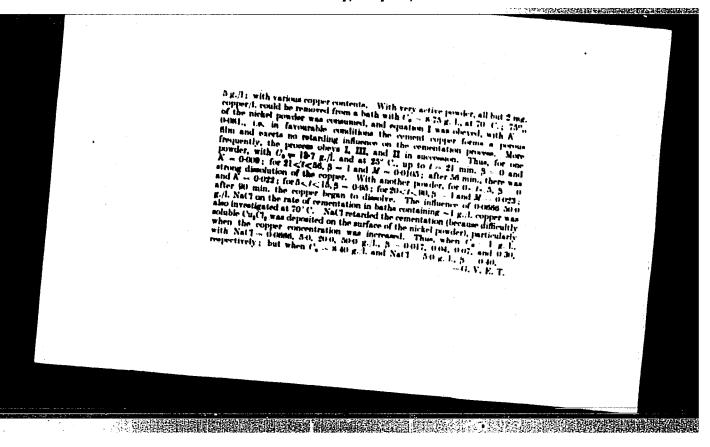
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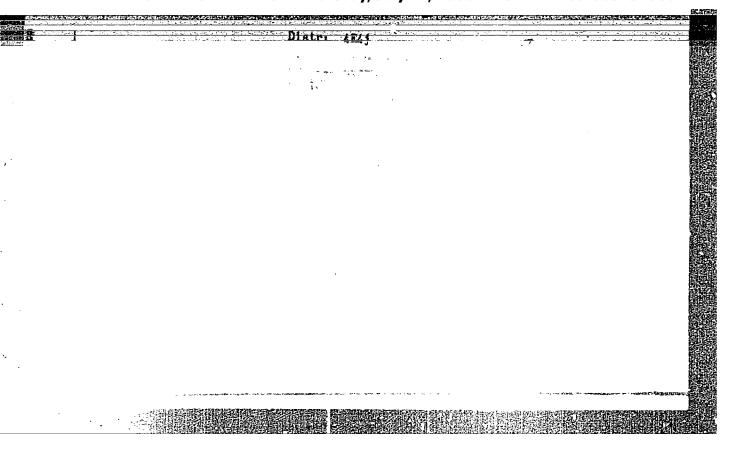


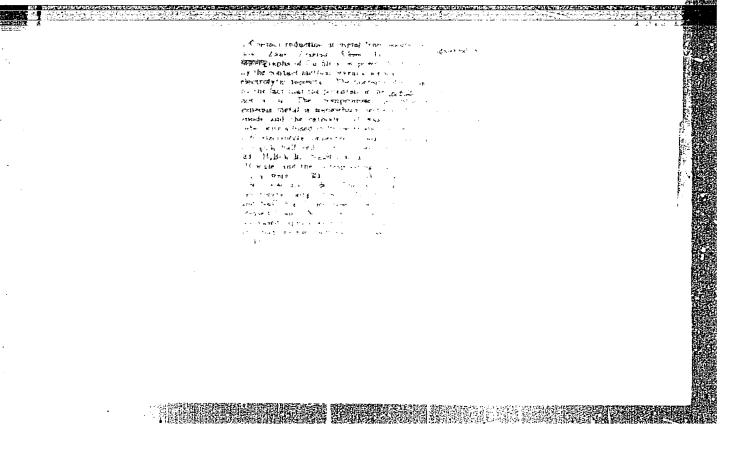




"Principal of Richri in Richts-Finites Solutions. R. V. Drondov (Zher. Prilited. Rhim., 1948, 25, (7), 714-723).—(In Russian). Published values for the normal potential of Ni (ranging from — 640 to — 128 mV.) are reviewed. D. has determined the potential referred to the normal H electrode (B) in boths contg. NiSO, 7HgO 200, Na, 8O, 40, HgBO, 20, NaCl 8 g./L., using two types of Ni: (i) active electrodyses powder, and (ii) compact electrodeposited Ni arguest to air for a long period. Both types were very pure, contg. 0.08% Cu and 0.09%, Fe. In a both contg. also 2-26 g./L. Pr* and 0-11 g./L. Fr**, i.a. with high Redox potential $R_{\rm m}$, at 18° C. the compact Ni became completely passive, with B = +710, 845, 865, 831, 866, and 870 mV. after 0, 15, 20, (low $R_{\rm m}$) as 18° C., its activity increased, with B = +176, 131, 142, 132, — 30, — 98, and — 99 mV. after 0, 15, 60, 180, 4300, 2800, and 12,000 min. On subjection to intensive enthetic polarization, B was changed to — 360 mV. With the active powder, in a both contg. Fr** 1-16, Fr** 0-4 g./L. high $B_{\rm m}$) at 18° C., E = -250, -190, -80, -43, -40, and -14 mV. after 0, 0-5, 2, 24, 44, and 96 kr., some Ni dissolving with decrease in Fr**. At low $R_{\rm m}$ and p 1 \geq 3, E for active

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041122(





5.2100

77495 SOV/80-33-1-4/49

AUTHORS:

Malyshev, M. F., Drozdov, B. V.

TITLE:

Concerning the Reaction of Sodium Aluminosilicate With

Calcium Aluminum Hydrate in Solutions

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 1, pp 20-26

(USSR)

ABSTRACT:

In order to follow the changes that take place during the leaching process in the production of alumina by the method of sintering, the authors have studied reactions that decompose tricalcium aluminate hexahydrate (supposedly formed in the process by reaction (3)):

 $3Ca(OH)_2 + Na_2O + Al_2O_3 + aq \implies 3CaO + Al_2O_3 + yH_2O + 6NaOH + aq.$ Solid phase.

Card 1/4

Concerning the Reaction of Sodium Aluminosilicate With Calcium Aluminum Hydrate in Solutions

77495 SOV/80-33-1-4/49

 $3CaO \cdot Al_{2}O_{3} \cdot yH_{2}O + 1.7Na_{2}SiO_{3} + aq \longrightarrow CaO \cdot Al_{2}O_{3} \cdot 1.7SiO_{2} \cdot xH_{2}O + \\ + 2Cu(OH)_{2} + 3.4NaOH + aq,$ $3CaO \cdot Al_{2}O_{3} \cdot yH_{2}O + 3(Na_{2}O \cdot Al_{2}O_{3} \cdot 1.7SiO_{2} \cdot xH_{2}O) + \\ + aq \longrightarrow 3(CaO \cdot Al_{2}O_{3} \cdot 1.7SiO_{2} \cdot xH_{2}O) + Na_{2}O \cdot Al_{2}O_{3} + 4NaOH + aq.$ (5)

Experimental data on the extent of these reactions (performed in tightly closed stainless-steel vessels inverted 18 times per minute for 2 hours in an air thermostat at 80°) have shown that percent of decomposed calcium aluminate hydrate (of molecular ratio CaO:Al₂O₃:H₂O = 3.08:1:6.20; n = 1.604; crystallooptical measurements were performed by A. A. Chistyakova under the supervision of O. I. Arakelyan) increases with increasing concentration of Na₂SiO₃ (100% at Na₂O 191 g/l and SiO₂ 224 g/l). The reaction of calcium aluminate hydrate with sodium aluminosilicate (Na₂O:Al₂O₃:SiO₂:H₂O = 0.91:1:1.66:1.62) in

Card 2/4

Concerning the Reaction of Sodium Aluminosilicate With Calcium Aluminum Hydrate in Solutions

77495 **SOV**/80-33-1-4/49

water, NaOH solutions, and alkaline solutions of sodium aluminate was found to result in the formation of soluble Na_2O and Al_2O_3 and that (1) the degree of decomposition of the aluminate hydrate increases with increasing concentration of NaOH in the solution and with increasing quantity of sodium aluminosilicate in the original pulp, and decreases with increase of calcium aluminate hydrate in the pulp; and (2) the degree of ionic exchange in sodium aluminosilicate decreases with increasing concentration of NaOH and with increasing weight ratio of sodium alumosilicate to calcium aluminate hydrate in the original reaction mass. Presence of calcium aluminosilicate in the final residue after the leaching process has not yet been proved, yet by simultaneous mixing of solutions of Al₂0₃ and Na₂0 containing, respectively, SiO₂, CaO and both, it was shown that calcium aluminate hydrate, sodium aluminosilicate, and calcium aluminosilicate were formed. The degree of decomposition of calcium aluminate

Card 3/4

Concerning the Reaction of Sodium Aluminosilicate With Calcium Aluminum Hydrate in Solutions 77495 **SOV**/80-33-1-4/49

hydrate by sodium aluminosilicate in water and in alkaline solutions of sodium aluminate is so low (10.5-12%) that its absence in the residue after the leaching process cannot be explained by the reaction of sodium aluminosilicate and calcium aluminate hydrate. It is supposed that the latter can decompose by reaction with silicon dioxide as it does in reaction with sodium silicate. G. V. Kazabrodskaya participated in this work. There are 7 tables; and 10 references, 8 Soviet, 1 French, 1 U.S. The U.S. reference is: Allen U. Rogers, Am. Chem. J., 24, 34 (1900).

ASSOCIATION:

All-Union Aluminum and Magnesium Institute and the Department of Inorganic and Analytical Chemistry of the Leningrad Technological Institute (Vsesoyuznyy alyuminiyevo-magniyevyy institut i Kafedra neorgani-cheskoy i analiticheskoy khimii Leningradskogo tekhnologi-

cheskogo instituta)

SUBMITTED:

June 20, 1958

Card 4/4

5.2200.5.4300

782.1 807/80-33-3-22/47

AUTHOR:

Drozdov, B. V.

TITLE:

Energy of Activation of Contact Reduction of Copper From

Solutions by Means of Nickel Powders

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp 633-

635 (USSR)

ABSTRACT:

The energy of activation of copper reduction with high activity (Fig. 1, plots 3 and 4) and low activity (Fig. 1, plots 1 and 2) nickel powders in solutions containing $N1SO_{1}\cdot 7H_{2}O$; $Na_{2}SO_{1}$; $H_{3}BO_{3}$; NaC1; and $CuSO_{1}\cdot 5H_{2}O$ was

determined by the authors by the analytic method, and by M. Ye. Semenov by the potentiometric method. In both instances, the plots of ln K against 1/T were not linear. This was particularly noticeable in reduction with low active catalysts (Fig. 1, plots 1 and 2) where a sharp change in the value of E and a break in the straight line occurred at higher temperatures, making the line practically horizontal. This indicated a transition of the

Card 1/3

reaction kinetics from the kinetic to the diffusion region.

Energy of Activation of Contact Reduction of 78221 Copper From Solutions by Means of Nickel Powders SOV/80-33-3-22/47

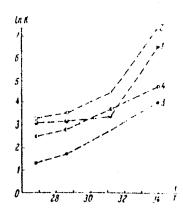


Fig. 1. Dependence of ln K on 1/T characterizing the transition from kinetic to diffusion region (rate constant calculated by determining copper concentration in the solution); (1, 2, 3, 4) powder numbers.

Card 2/3

Energy of Activation of Contact Reduction of 78221 Copper From Solutions by Means of Nickel Powders SOV/80-33-3-22/47

There are 2 figures; and 3 references, 1 U.S., 2 Soviet. The U.S. reference is: R. Glicksman, H. Mouquin, C. King, J. Electroch. Soc., 100, 580 (1953).

SUBMITTED: June 27, 1959

Card 3/3

18.3100, 5.2200

78226

SOV/80-33-3-27/47

AUTHOR:

Drozdov, B. V.

TITLE:

The Behavior of Arsenic and Antimony in Electrolytic Copper

Rer'ining

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp

662-667 (USSR)

ABSTRACT:

The study deals with the mechanism of the oxidation of As $^{\rm III}$ and Sb $^{\rm III}$ to As $^{\rm V}$ and Sb $^{\rm V}$; with the way in which these impurities are deposited on the cathode; and with the effect of Cl ions on the migration of Sb to the cathode. It was established that the oxidation potentials of As $^{\rm III}$ -As $^{\rm V}$ and Sb $^{\rm III}$ -Sb $^{\rm V}$

Sb to the cathode. It was established that the oxidation potentials of AsIII -AsV and SbIII-SbV do not correspond to the equilibrium, and the Mernst equation cannot be applied to them. The possibility of an anodic oxidation taking place in the electrolytic copper refining cannot be excluded, contrary to the studies of other Soviet authors who considered it to be chiefly a chemical reaction. It was further established

Card 1/3

that the absence of an oxidation potential equilibrium

The Behavior of Arsenic and Antimony in Electrolytic Copper Refining

78226 SOV/80-33-3-27/47

plays a preponderant role in the oxidation of As, and the formation of little-soluble quinquevalent compounds, in the oxidation of Sb. As and Sb subjected together to anodic oxidation formed littlesoluble compounds of the type $\text{nAs}_2\text{O}_3 \cdot \text{mSb}_2\text{O}_5$ or kAs205.1Sb203; the oxidation proceeded readily, and up to 83% of the impurities were precipitated. As and Sb cations can also be discharged at the cathode, chiefly in trivalent form which predominates in the solution. Quinquevalent As and Sb are deposited on the cathode in a much smaller amount, as they are present in the solution chiefly in the form of anions. . The addition of Cl ions to the solution hinders the migration of Sb lons to the cathode; the reason for tals fact is not clear as yet. B. N. Antonov participated in the experimental part of the study. There are 4 figures; and 21 references, 1 U.S., 2 U.K., 7 German, and 10 Soviet. The U.S.

Card 2/3

The Behavior of Arsenic and Antimony in Electrolytic Copper Refining

78226

sov/80-33-3-27/47

and U.K. references are: H. J. S. Sand, J. Chem. Soc., 93, 1576 (1908); L. Addichs, Copper Refining, McGraw Hill Book Co., New York (1921); A. K. Goard, E. K. Rideal, Trans. Farad. Soc., 19, 740 (1924).

SUBMITTED:

June 29, 1959

Card 3/3

DROZDOV, B.V.; MALYSHEV, M.F.; Prinimala uchastiye KAZABRODSKAYA, G.V.

Decomposition of \$\beta^2-2CaO\cdot SiO_2\text{ with sodium alkali solutions of sodium aluminate. Zhur.prikl.khim. 33 no.10:2357-2359 0 160.

(MIRA 14:5)

l. Leningradskiy tekhnologicheskiy institut tsellyulezno-bumazhnoy promyshlennosti i Vsesoyuznyy alyuminiyevo-magniyevyy institut.

(Calcium silicate) (Sodium aluminate)

5/126/62/013/005/025/031 E111/E435

Drozdov, B.Ya., Kogan, L.I., Entin, R.I. AUTHORS:

Influence of stress and deformation on the kinetics of TITLE:

the intermediate transformation of austenite

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.5, 1962,

776-779

Information on the effect of deformation of metastable austenite followed by quenching on the austenite transformation is The authors have studied the kinetics of the transformation under applied-load conditions on type 40XH5C (40KhN5S) and 80X4 (80Kh4) steels. For the first, loading was carried out at 0.6 mm/min to the required stress which was then kept constant within + 1 kg/mm². The kinetics were studied at 300 and 350°C. Acceleration occurred at all the temperatures, being especially marked at temperatures of the lower part of the intermediate region. The influence of rate of deformation was studied at 300, 400 and 525°C. This and other work shows that when conditions for thermomechanical treatment of steels are Card 1/2

Influence of stress ...

S/126/62/013/005/025/031 E111/E435

being worked out, the effect of stresses and plastic deformation on the austenite-transformation kinetics must be allowed for in such a way that non-martensitic transformation products should not be found. Deformation temperature should be sufficiently high to give very stable austenite, and the deformation should be as fast as possible. There are 4 figures and 2 tables.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIIChm (Institute of Science of Metals and Physics of Metals TsNIIChm)

SUBMITTED: July 25, 1961

Card 2/2

YANOVSKIY, G.V., kand.med.nauk; DROZDOV, D.D.

Reiter's syndrome. Vrach.delo no.2:132-133 F '63.

(MIRA 16:5)

1. Otdel klinicheskoy farmakologii (zav. - zasluzhennyy deyatel* nauki, prof. A.L. Mikhnev) Ukrainskogo nauchno-issledovatel*skogo instituta klinicheskoy meditsiny imemi akademik N.D. Strazhesko. (ARTHRITIS) (CONJUNCTIVITIS) (URETHRA-DISEASES)

DROZDOV, D.D.

GRE metabolism under the effect of ACTH, cortisone and prednisone. Fiziol.zhur. [Ukr.] 10 no.4:546-549 Jl-Ag *64.

(MIRA 18:11)

l. Otdel funktsional'noy diagnostiki Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny im. akademika Strazhesko, Kiyev.

DROZDOV, D.D.

Aggravation of thyrotoxicosis phenomena in the treatment with hormonal preparations. Vrach.delo no.3:26-29 Mr 163. 1. Otdel klinicheskoy farmakologii i funktsional'moy terapii (zav. - zasluzhennyy deyatel' mauki, prof. A.L.Mikhnev)
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy

meditsiny imemi akademika N.D.Strashesko. (THYRQID GLAND-DISEASES) (ACTH) (PREGNA)

MIGAY, Konstantin Vasil'yevich, kand. med. nauk; TIMOFEYEVA,
Ol'ga Nikolayevna, kand. tekhn. nauk; YUSHTIN, Yevgeniy
Ivanovich, inzh.; DROZDOV, D.F., inzh., retsenzent;
AHRAMOVICH, V.R., inzh., retsenzent; OSMINKIN, Ya.M.,
nauchn. red.; SOSIPATROV, O.A., red.

[Safety measures during electric welding operations in shipbuilding] Tekhnika bezopasnosti pri elektrosvarochnykh rabotakh v sudostroenii. Leningrad, Izd-vo "Sudostroenie," 1964. 59 p. (MIRA 17:5)

DROZDOV, D. I.

Drozdov, D. I. "On the proviem of local anesthesia with an alkaline solution of novocathe," Spornik nauch. rabot evakogospitaley i Kafedry oushchey chirurgii (Irkutsk oble.otd. zdravookhraneniya. Irkut. gos. med. in-t), (Irkutsk), 1948, p. 30-42

SO: U-2888, Letopis 4mrnal nykh Statey, No. 1, 1942

DROZDOV, D. I. and KOSUKHA, M. N.

"Operative Removal of a Poreign body (Bullet) From Epipericardium Joints", Military-Medical Journal, No. 8, p 86, 1955.

DROZDOY. D.L. polkovnik meditsinskoy slushby, kandidat meditsinskikh nauk; MORDOYSKIY, K.P., mayor meditsinskoy slushby, kandidat meditsinskikh nauk

Penicillin therapy for open infected fractures of the long bones.

Voen.-med. shur. no.3:83 Mr '56. (MIMA 9:9)

(PENICILLIN) (FRACTURES)

DROZDOV. D. I., polkovnik meditsinskoy slushby, kandidat meditsinskikh nauk; HORDOVSKIY, K.P., mayor meditsinskoy slushby, kandidat meditsinskikh nauk

Air embolism in wounds of the liver. Voen.-med. zhur. no.3:83-84 Mr '56. (MLRA 9:9)

(EMBOLISM) (LIVER--WOUNDS AND INJURIES)

UDC: 621.313

L 22425-66 EWT(d)/EWP(k)/EWP(l) CC NRi AP6013623 SOURCE CODE: UR/0105/65/000/009/0089/0090 AUTHOR: Avilov-Karnaukhov, B. N.; Baturo, V. I.; Bakhvalov, Yu. A.; Bogush, A. G.; Bolyayev, I. P.; Gikis, A. F.; Drozdov, A. D.; Kayalov, G. M.; Kleymenov, V. V.; Kolesnikov, E. V.; Malov, D. I. ORG: none TITIE: Honoring the 60th birthday of Professor Yefim Markovich Sinel'nikov SOURCE: Elektrichestvo, no. 9, 1965, 89-90 TOPIC TAGS: academic personnel, electric engineering personnel, computer research Professor Sinel'nikov was born 11 May 1905 in Yekater-ABSTRACT: inoslav (now Dnepropetrovsk) in the family of a clerk. Following his graduation from the Khar'kov Electrical Engineering Institute in 1930 he was appointed chief of the Technical Division on Electric Drive at the Khar'kov Electrical Machinery Plant. Subscquently he was appointed research engineer at the Vol'ta Plant and later on transferred to Moscow, to the Institute of Experimental Medicine, while at the same time he continued his studies. In 1946 he started working as a senior scientific researcher at the All-Union Electrical Engineering Institute. Since September 1953 Professor Sinel'nikov has been working at the Novocherkassk Polytechnic Institute. At present he is head of the Chair of

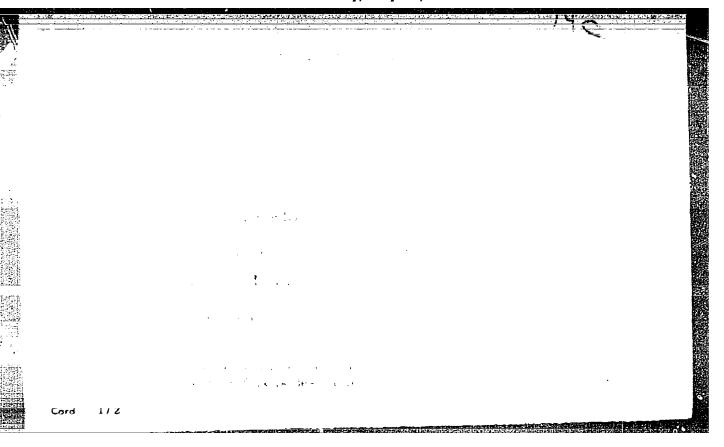
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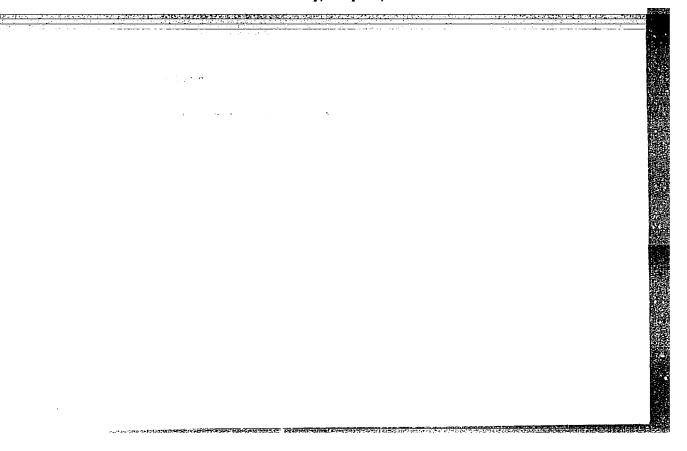
L 22425-66 ACC NR: AP6013623

Electrical Machinery, Apparatus, and Computers and Mathematical Devices. He has been instrumental in establishing the computer laboratory at this institute, where research is being performed on the problems of utilizing computer engineering in the design and calculation of electromagnetic, mechanical, and thermal processes in electrical machinery and equipment. Since 1958 Professor Sinel'nikov has been Coordinating Editor of the journal Elektromechanika (Electromechanics) - one of the series published under the aegis of Izvestiya Vysshikh Uchebnykh Zavedeniy (News of Higher Schools). Yefim Markovich is moreover a prominent educator and the holder of many social honors and consultant to a series of industrial enterprises. For his great merits as an educator and for his scientific contributions he has been awarded the Order of Labor Red Banner. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2//





13

L 39530 296 EAR(m)/EPF(r)-2/EMA(h) GD/DM

ACC NR: AP6005539

(N)

SOURCE CODE: UR/0089/66/020/001/0074/0075

AUTHOR: Drozdov, F. S.; Rychev, A. S.

ORG: none

TITLE: Determining negative reactivity by "shooting" the source

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 74-75

TOPIC TAGS: nuclear reactor, nuclear reactor power, radiation source, neutron flux

ABSTRACT: The authors discuss the method of "shooting" a neutron source for checking subcriticality in a nuclear reactor. The source of neutrons is shot by a pneumatic device and the neutron fluxes ϕ_1 with the source in the system and ϕ_2 after the shooting are recorded. An approximate formula is derived relating ϕ_1 and $\phi(t)$ to reactivity. The experimental equipment used for verifying this formula is briefly described. It was found that the proposed method is extremely convenient for monitoring subcriticality. Reactivity may be evaluated directly after shooting by visual observation. The method may also be used for continuously monitoring the

UDC: 621.039.564:621.039.566

Card 1/2

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L 39530-66

'ACC NR: AP6005539

2

state of a near-critical system. The authors thank V. M. Talyzin and Ya. V. Shevelev who directed the work and took part in most of the measurements on the IGR reactor. Orig. art. has: 8 formulas.

SUB CODE: 18/

SUBM DATE: 12Apr65/

ORIG REF: 002/

OTH REF: 005

Card 2/2

DROZDOV, FEDOR VLADIMIROVICH

Detali priborov. (2. izd., perer. i dopoln.) Moskva, Oborongiz, 1948.
593 p. port., diagrs. First ed. pub. in 1936 under titl: Detali tochnogo aparato— i priborostroeniia. (Elements of precision instruments and apparatus.)

Instrument elements.

DLC: TA165.D 7 1948

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

DROZDOV, G., kand.ekon.nauk Encourage efficiency improvements. Nauka i pered.op.v sel'khoz. 9 no.12:60 D '59. (MIRA 13:4)

PRONIN, V.I.; DROZDOV, G.D.

Boring an experimental inclined horizontal borehole in the Novo-Karfagensk salt mine. Trudy VNIIPodzemgaze no.12:135-138 '64. (MIRA 18:9)

1. UFRFODZEMGAZ.

YARMOLINSKIY, I.B.: DROZDOV. G. M.

Over-all mechanization of the production of shoe parts and cardboard for shoes. Kozh.-obuv.prom. no.7:14-17 J1 159- (MIRA 12:11)

(Shoe manufacture)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041122

LITVINENKO, A.U.; DROZDOV, G.M.

Hypergene magnetite from the weathering crust of ultrabasic rocks of the middle Dnieper Valley. Dokl.AN SSSR 145 no.2:414-417 Jl '62. (MIRA 15:7)

l. Dnepropetrovskaya geologicheskaya ekspeditsiya Ukrainskogo nauchno-issledovatel skogo geologorazvedochnogo instituta.

Predstavleno akademikom N.M.Strakhovym.

(Dnieper Valley-Magnetite)

DROZDOV, G. N.

NEw methods in the struggle for raising the fertility of the soil. Sov. agron. 10, No 6, 1952.

- 1. DROZDOV, G. N.
- 2. USSR (600)
- 4. Irrigation Farming
- 7. Irrigation methods and control of water rot. Sad i og N_0 . 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- 1. DROZDOV, G. N.
- 2. USSR (600)
- 4. Irrigation Farming
- 7. Furrow method of irrigating onions. Sad i og. no. 2, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

DROZDOV, G. N.			
Alfalfa			
Critical comments on a good book ("Alfalfa." Drozdov). Sel. i sem. 20, No. 3, 1953.	M. P. Elsukov.	Reviewed by G. N.	

9. Monthly List of Russian Accessions, Library of Congress, June

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041122(

____1953, Uncl.

DROZDOV G. W.

Experience of the past is the basis for the future ("A year's work on the reclamation of virgin and waste lands in Kazakhstan."

Zemledelie 4 no.10:119-125 0 *56. (MIRA 9:11)

(Kazakhstan-Agriculture)

DROZDOV, G.V.; KLEBANSKIY, A.L.; BARTASHOV, V.A.

Preparation of perfluoroacyloxy derivatives of biscyclopentadienyltitanium. Zhur.ob.khim. 32 no.7:2390-2391 Jl '62. (MIRA 15:7) (Titanium organic compounds)

	L 17734-63 EPR/EWP(j)/EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD 'Ps-4/Pc-4/Pr-4 RM/WW/JD/MAY/JG		
	S/0079/63/033/007/2422/2422		
	AUTHORS: Drozdov, G. V.; Klebanskiy, A. L.; Bartachev, V. A. 76		
	TIPIE: Synthesis of bis-cyclopentadienyl titanium bis-trifluoroethoxide	1 2	
	SOURCE: Zhurnal obshchey khimii, v. 33, no. 7, 1963, 2422		
	TCPIC TAGS: cyclopentadienyl titanium, alkoxide, trifluoroethoxide, toluene, trifluoroethanol	;	
•	ABSTRACT: Earlier attempts to prepare bis-alkoxy derivatives of bis-cyclopentadienty titanium were unsuccessful. The reaction of two moles of sodium trifluoro-		
	solid with molting point of 42 00 yield as a reddish brown, crystalline		
	acetyl chloride. The starting dichloride by treatment with hydrogen chloride		
!	orige art. has: no graphics.		
,	ASSOCIATION: none	4 (.44)	

ACC NR. AP5026263

SOURCE CODE: UR/0240/65/000/008/0109/0111

AUTHOR: Veldre, I.A. (Candidate of biological sciences); Maazik, I. Kh.; Drozdov, G. V.

ORG: Estonian Institute of Experimental and Clinical Medicine, AMN SSSR, Tallin (Estonskiy institut eksperimental noy i klinicheskoy meditsiny AMN SSSR); Sanepidstatsiya

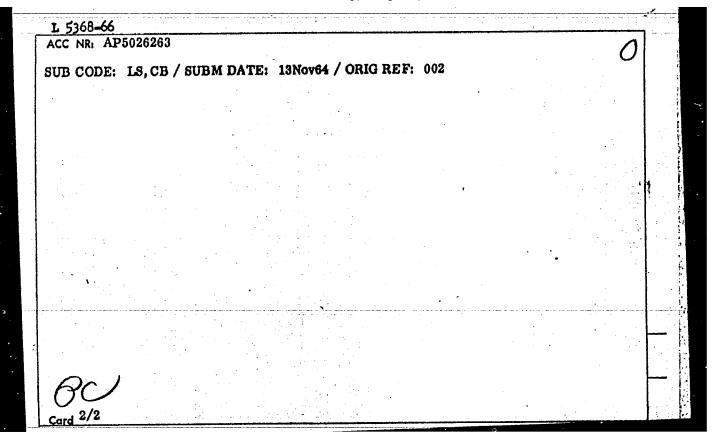
TITLE: Results of a sanitary-hygienic study of the coastal region of Pyarnu Bay

SOURCE: Gigiyena i sanitariya, no. 8, 1965, 109-111

TOPIC TAGS: sea water, water pollution, waste disposal

ABSTRACT: A study of the sanitary conditions of the coastal region of the resort at Pyarnu Bay (Estonia) was made between July 1962 and June 1964 by analyzing the water at various distances from shore. It was found that the discharge of waste waters into the bay pollutes the water in the beach area, the pollution being higher in summer than in winter. A study of the effect of swimmers themselves on the state of the sea water showed that among the chemical indices, only the biological oxygen requirement is raised slightly at a day's end. Among the vacteriological indices, a decrease in the titer of Escherichia coli and an increase in the quantity of microbes are noted, indicating a marked decline in the sanitary quality of the water. Helminthological analyses indicated a fecal pollution of the water in the vicinity of the water. Helminthological analyses indicated a recal pollution of the water in the vicinity of the beach. This polluted state can be improved by discontinuing the discharge of untreated waste waters into the area, and periodically cleaning and leveling the beach bottom. Orig. art. has:

UDC: 615.839 /474 2



DROEDOV. I.

Dubrov, N., and Drosdov, I. Increase in Durability in Laying Open Hearth Furnaces. Stal, 1939 (1) 15-18

DROZDOV, I. Hot days at a great construction site. Grazhd. av. 12 no.12:4 (HIRA 11:6) D 155.

> 1.Kuybyshevskaya gidroelektricheskaya stantsiya. (Kuybyshev Hydroelectric Power Station)

DROZDOV, I.

New developments in the operations of the Orel Bus Station. Avt. transp. 42 no. 5:15-16 My 164. (MIRA 17:5)

l. Zamestitel' nachal'nika Orlovskogo avtoupravleniya.

Drozdov, I.A.

5 June AID Nr. 983-3

SINTERING OF COMPACTED OXIDIZED COPPER POWDERS (USSR)

Aksenov, G. I., and I. A. Drozdov. Poroshkovaya metallurgiya, no. 2, \$/226/83/000/002/002/014 Mar-Apr 1963, 14-21.

The Kuybyshev Aviation Institute has compared the sintering behavior of copper powders reduced from scale at 250°C (powder A) and at 600°C (powder B), compacted under a pressure of 1-3, 5, 7, 9, 11, or 13 ton/cm² from 75-90-µ fractions of powders, and sintered in a current of H2 for 30 min at a temperature of 980°C reached at a rate of 20 deg/min. It was found that the final density of sintered compacts generally increased with increased sintering temperature. However, A compacts grew in the 400-550°C range and B compacts in the 800-1000°C range. When compacted at a pressure below 7 ton/cm², sintered compacts of powder A were denser than compacts of powder B. The maximum . density in both compacts was achieved with a compacting pressure of 5 ton/cm².

Card 1/2

AID Nr. 983-3 5 June

SINTERING OF COMPACTED OXIDIZED [Cont'd]

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An important factor affecting final density of sintered oxidized-powder compacts is the heating rate in sintering, since increasing pressure of gases with rapidly increasing temperature strongly counteracts sintering. Thus, slower or stepwise heating with a holding at the temperature of gas liberation from the surface of powder particles, i. e., at 400-500°C, would be more effective. [MS]

Card 2/2

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ACCESSION NR: AP3000103

3/0126/63/015/004/0597/0604

AUTHORS: Aksenov, G. I., Drosdov, I. A.

TITLE: Microstructural analysis of copper from sinter

SOURCE: Fizika metallov i metallovedeniye, vol. 15, no. 4, 1963, 597-604

TOPIC TAGS: microstructure, copper, copper sinter

ABSTRACT: The microstructure of copper obtained from copper sinter was studied. Photographs of the results are presented and discussed. The copper samples were oxidized in an electric oven at 900-1000C for 30 hours. The thickness of the oxidized layer obtained was 1.5-2 mm. The sinter was separated from the nonoxidized part of the metal and weighed. Subsequently it was treated by a reducing gas at temperatures of 250, 300, 350 and 500C for a period varying from 10 to 1200 mimites. The authors state that copper oxidation at high temperatures results in a dense sinter composed mainly of cuprous oxide. Large voids at the metal-sinter interface are caused by the unilateral copper diffusion. A hypothesis concerning the mechanism of the reduced copper advancement into the sinter-layer is offered. The crystalline-chemical conversion of the dense sinter during reduction results in a metal with cracks and submicrocracks. Copper reduced at low temperatures is fine-

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ACCESSION HR: AR4018313

SOURCE: RZh. Metallurgiya, Abs. 1G249

AUTHOR: Aksenov, G. I.; Drozdov, I. A.

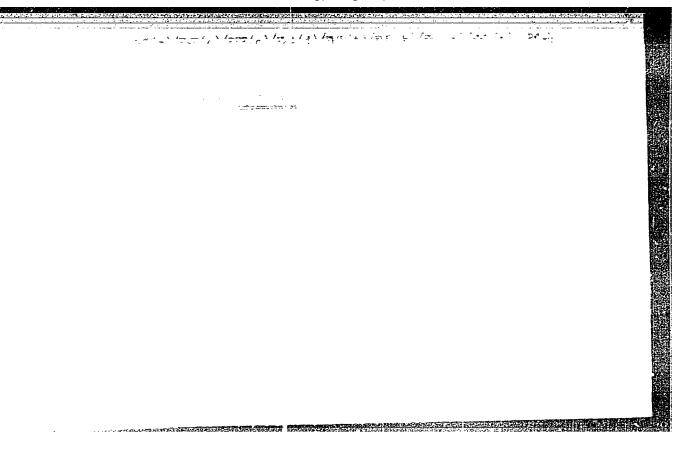
TITLE: Study of the sintering of copper compacts by means of high-temperature metallography

CITED SOURCE: Tr. Kuyby*shevsk. aviats. in-t, wy*p. 16, 1963, 149-165

TOPIC TAGS: copper powder sintering, pressed copper powder sintering

TRANSLATION: A study was made of the processes of sintering two Gu powders, a reduced and an atomized powder. The atomized powder was first annealed in H2 at 300°. Specimens 20 mm in diameter and 0.7 - 1.2 mm high were pressed with polished-surface punches under a pressure of 5 t/om². To make it possible to study specific sections of the specimens, a grid was drawn on them with a diamond indentor. The specimens were placed in the chamber of a type MVY high-temperature microscope. The study was carried out either under vacuum (10-4 mm Hg) or in H2 (1-10 mm Hg). Heating rate was 5-10 deg/min. The surface was photographed every 50-100°. When sintering briquettes from reduced powder at 970-980°, the surface under observation Cord 1/2

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DROZDOV, I. D., Cand. Tech. Sci. (diss) "Some Problems of Theory of Equalization of Measurements," Moscow, 1961, 23 pp. ((Moscow Inst. of Engineers for Geodesy, Aerial Photography and Cartography) 200 copies (KL Supp 12-61, 266).